

INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION

| | | | |
|--|--|--|--|
| (51) International Patent Classification : Not classified | | A2 | (11) International Publication Number: WO 00/ |
| | | | (43) International Publication Date: 20 July 2000 (20.07.00) |
| (21) International Application Number: PCT/US00/00942 | | (81) Designated States: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG). | |
| (22) International Filing Date: 14 January 2000 (14.01.00) | | Published <i>Without international search report and to be republished upon receipt of that report.</i> | |
| (30) Priority Data: 60/116,380 14 January 1999 (14.01.99) US 60/132,017 30 April 1999 (30.04.99) US 60/175,365 10 January 2000 (10.01.00) US | | | |
| (71) Applicant (for all designated States except US): AMYLIN PHARMACEUTICALS, INC. [US/US]; 9373 Towne Centre Drive, Suite 250, San Diego, CA 92121 (US). | | | |
| (72) Inventors; and (75) Inventors/Applicants (for US only): YOUNG, Andrew [US/US]; P. O. Box 60591, Point Loma, CA 92166 (US). GEDULIN, Bronislava [US/US]; 12825 Stebick Court, San Diego, CA 92131 (US). (74) Agent: DUFT, Bradford, J.; Lyon & Lyon LLP, 633 West Fifth Street, Suite 4700, Los Angeles, CA 90071-2066 (US). | | | |

(54) Title: METHODS FOR GLUCAGON SUPPRESSION

His Ser Asp Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15
Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser
20 25 30
Ser Gly Ala Pro Pro Pro Ser-NH₂
35

(57) Abstract

Methods for use of an exendin, an exendin agonist, or a modified exendin or exendin agonist having an exendin or exendin agonist linked to one or more polyethylene glycol polymers, for example, for lowering glucagon levels and/or suppressing glucagon secretion in a subject are provided. These methods are useful in treating hyperglucagonemia and other conditions that would be benefited by lowering plasma glucagon or suppressing glucagon secretion.